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Relevance scale

Improving the performance of log-structured file systems with adaptive methods Jeanna Neefe Matthews, Drew Roselli, Adam M. Costello, Randolph Y. Wang, Thomas E. Anderson



October 1997 ACM SIGOPS Operating Systems Review, Proceedings of the sixteenth ACM symposium on Operating systems principles, Volume 31 Issue 5

Full text available: pdf(2.18 MB)

Additional Information: full citation, references, citings, index terms

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 A low-bandwidth network file system

Athicha Muthitacharoen, Benjie Chen, David Mazières

October 2001 ACM SIGOPS Operating Systems Review, Proceedings of the eighteenth ACM symposium on Operating systems principles, Volume 35 Issue 5

Full text available: pdf(1.29 MB)

Additional Information: full citation, abstract, references, citings, index terms

Users rarely consider running network file systems over slow or wide-area networks, as the performance would be unacceptable and the bandwidth consumption too high. Nonetheless, efficient remote file access would often be desirable over such networks---particularly when high latency makes remote login sessions unresponsive. Rather than run interactive programs such as editors remotely, users could run the programs locally and manipulate remote files through the file system. To do so, however, wo ...

4

C-TODOS: an automatic tool for office system conceptual design

B. Pernici, F. Barbic, R. Maiocchi, M. G. Fugini, J. R. Rames, C. Rolland

October 1989 ACM Transactions on Information Systems (TOIS), Volume 7 Issue 4

Full text available: pdf(2.88 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Designers of office information systems, which share various features with information systems and software development, need to carefully consider special issues such as document and communication flows, user roles, user interfaces, and available technology. The ESPRIT Project, Automatic TOols for Designing Office Information Systems (TODOS), proposes an integrated environment for office design with tools for requirements collection and analysis, conceptual design, rapid prototy ...

5 The integration of virtual memory management and interprocess communication in Accent

Robert Fitzgerald, Richard F. Rashid

May 1986 ACM Transactions on Computer Systems (TOCS), Volume 4 Issue 2

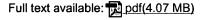
Full text available: pdf(2.45 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

The integration of virtual memory management and interprocess communication in the Accent network operating system kernel is examined. The design and implementation of the Accent memory management system is discussed and its performance, both on a series of message-oriented benchmarks and in normal operation, is analyzed in detail.

6 4.2BSD and 4.3BSD as examples of the UNIX system

John S. Quarterman, Abraham Silberschatz, James L. Peterson December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4



Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

7 Authoring Support: Designing annotation before it's needed Frank Nack, Wolfgang Putz

October 2001 Proceedings of the ninth ACM international conference on Multimedia

Full text available: pdf(1.16 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

This paper considers the automated and semi-automated annotation of audiovisual media in a new type of production framework, A4SM (Authoring System for Syntactic, Semantic and Semiotic Modelling). We present the architecture of the framework and outline the underlying XML-Schema based content description structures of A4SM. We then describe tools for a news and demonstrate how video material can be annotated in real time and how this information can not only be used for retrieval but also can be ...

Keywords: MPEG-7, XML Schema, automated annotation, news production, semantic networks

8 Web content accessibility guidelines 1.0

Wendy Chisholm, Gregg Vanderheiden, Ian Jacobs July 2001 **interactions**, Volume 8 Issue 4

Full text available: pdf(471.98

Additional Information: full citation, references, citings, index terms

9 Poster session and reception: MPEG-7 metadata authoring tool

Jeewoong Ryu, Yumi Sohn, Munchuri Kim

December 2002 Proceedings of the tenth ACM international conference on Multimedia

Full text available: pdf(147.33 KB) Additional Information: full citation, abstract, references, citings

Recently an international standard for Multimedia content description, MPEG-7, has been finalized in the 1st phase by reaching the FDIS level. MPEG-7 aims at providing structural and semantic description mechanism for multimedia contents so that content based searching/filtering and access to multimedia content can be possible in conjunction with multimedia description data, that is, MPEG-7 description data. However, the MPEG-7 specifications only specify the syntax and semantics of d ...

Keywords: MPEG-7, authoring, descriptors, key frame, metadata, multimedia description schemes

10 A high performance multi-structured file system design

Keith Muller, Joseph Pasquale

September 1991 ACM SIGOPS Operating Systems Review, Proceedings of the thirteenth ACM symposium on Operating systems principles, Volume 25 Issue 5

Full text available: pdf(1.40 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

File system I/O is increasingly becoming a performance bottleneck in large distributed computer systems. This is due to the increased file I/O demands of new applications, the inability of any single storage structure to respond to these demands, and the slow decline of, disk access times (latency and seek) relative to the rapid increase in CPU speeds, memory size, and network bandwidth.We present a *multi-structured file system* designed for high bandwidth I/O and fast response. Our design ...

11 DOD standard transmission control protocol

Jon Postel

October 1980 ACM SIGCOMM Computer Communication Review, Volume 10 Issue 4

Full text available: pdf(4.83 MB) Additional Information: full citation, references

12 <u>Decentralized storage systems: Farsite: federated, available, and reliable storage for an incompletely trusted environment</u>

Atul Adya, William J. Bolosky, Miguel Castro, Gerald Cermak, Ronnie Chaiken, John R. Douceur, Jon Howell, Jacob R. Lorch, Marvin Theimer, Roger P. Wattenhofer December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references

Farsite is a secure, scalable file system that logically functions as a centralized file server but is physically distributed among a set of untrusted computers. Farsite provides file availability and reliability through randomized replicated storage; it ensures the secrecy of file contents with cryptographic techniques; it maintains the integrity of file and directory data with a Byzantine-fault-tolerant protocol; it is designed to be scalable by using a

distributed hint mechanism and delegatio ...

13 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

May 2002 ACM Transactions on Internet Technology (TOIT), Volume 2 Issue 2

Full text available: pdf(335.47 KB)

Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

14 A method for incrementally compiling languages with nested statement structure

Jay Earley, Paul Caizergues

December 1972 Communications of the ACM, Volume 15 Issue 12

Full text available: pdf(474.16 KB) Additional Information: full citation, abstract, references, citings

A method of incremental compilation is presented which applies especially to programming languages in which statements can be nested (such as Algol and PL/I). The method permits editing of the source language using a general purpose text editor, and incremental processing of changes without frequent recompilation of entire routines. The essential points of the method are: (1) the syntax of the language is restricted insofar as which constructs may occur on lines; (2) an internal data struct ...

Keywords: incremental compiler, interactive programming language

15 Design of a SPDIF receiver using protocol compiler

Ulrich Holtmann, Peter Blinzer

May 1998 Proceedings of the 35th annual conference on Design automation - Volume

Full text available: pdf(348.72 KB)

Publisher Site

Additional Information: full citation, abstract, references, index terms

This paper describes the design of a receiver for the digital audio signal SPDIF used by CD-ROM players. The design was done with Protocol Compiler, a high-level synthesis tool for the design of structured data stream processing controllers. Compared to traditional RTL design, Protocol Compiler makes entry, debugging, and re-use easier. Design time was cut by factor 2 while the results in terms of area and delay are competitive.

Keywords: high-level synthesis, telecommunication

¹⁶ Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 2

Full text available: pdf(233.31 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have



engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

17 Trustworthy 100-year digital objects: Evidence after every witness is dead Henry M. Gladney

July 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 3

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

In ancient times, wax seals impressed with signet rings were affixed to documents as evidence of their authenticity. A digital counterpart is a message authentication code fixed firmly to each important document. If a digital object is sealed together with its own audit trail, each user can examine this evidence to decide whether to trust the content---no matter how distant this user is in time, space, and social affiliation from the document's source. We propose an architecture and design that a ...

18 Prefetch inection based on hardware monitoring and object metadata Ali-Reza Adl-Tabatabai, Richard L. Hudson, Mauricio J. Serrano, Sreenivas Subramoney June 2004 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation, Volume 39 Issue 6 Full text available: Topdf(288.00 KB) Additional Information: full citation, abstract, references, index terms

Cache miss stalls hurt performance because of the large gap between memory and processor speeds - for example, the popular server benchmark SPEC JBB2000 spends 45% of its cycles stalled waiting for memory requests on the Itanium® 2 processor. Traversing linked data structures causes a large portion of these stalls. Prefetching for linked data structures remains a major challenge because serial data dependencies between elements in a linked data structure preclude the timely materialization ...

Keywords: cache misses, compiler optimization, garbage collection, prefetching, profileguided optimization, virtual machines

19 Operating systems: DualFS: a new journaling file system without meta-data duplication Juan Piernas, Toni Cortes, José M. García

June 2002 Proceedings of the 16th international conference on Supercomputing

Full text available: Topdf(213.64 KB) Additional Information: full citation, abstract, references, index terms

In this paper we introduce DualFS, a new high performance journaling file system that puts data and meta-data on different devices (usually, two partitions on the same disk or on different disks), and manages them in very different ways. Unlike other journaling file systems, DualFS has only one copy of every meta-data block. This copy is in the meta-data device, a log which is used by DualFS both to read and to write meta-data blocks. By avoiding a time-expensive extra copy of meta-data b ...

Keywords: DualFS, journaling file system, meta-data management

Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 4

Full text available: pdf(6.94 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

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Relevance scale

21 Performance Workload Char. and Adaptation: Aliasing on the world wide web: prevalence and performance implications

Terence Kelly, Jeffrey Mogul

May 2002 Proceedings of the eleventh international conference on World Wide Web

Full text available: ndf(376.28 KB)

Additional Information: full citation, abstract, references, citings, index terms

Aliasing occurs in Web transactions when requests containing different URLs elicit replies containing identical data payloads. Conventional caches associate stored data with URLs and can therefore suffer redundant payload transfers due to aliasing and other causes. Existing research literature, however, says little about the prevalence of aliasing in userinitiated transactions, or about redundant payload transfers in conventional Web cache hierarchies. This paper quantifies the extent of aliasin ...

Keywords: DTD, HTTP, WWW, Zipf's law, aliasing, cache hierarchies, caching, duplicate suppression, duplicate transfer detection, hypertext transfer protocol, performance analysis, redundant transfers, resource modification, world wide web

22 Applications of formal methods: Verifying policy-based security for web services Karthikeyan Bhargavan, Cédric Fournet, Andrew D. Gordon October 2004 Proceedings of the 11th ACM conference on Computer and



communications security

Full text available: pdf(269.16 KB) Additional Information: full citation, abstract, references, index terms

WS-SecurityPolicy is a declarative configuration language for driving web services security mechanisms. We describe a formal semantics for WS-SecurityPolicy, and propose a more abstract link language for specifying the security goals of web services and their clients. Hence, we present the architecture and implementation of fully automatic tools that (1) compile policy files from link specifications, and (2) verify by invoking a theorem prover whether a set of policy files run by any number o ...

Keywords: XML security, pi calculus, web services

Scheduling algorithms for modern disk drives

Bruce L. Worthington, Gregory R. Ganger, Yale N. Patt

May 1994 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems, Volume 22 Issue 1

Full text available: pdf(1.01 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Disk subsystem performance can be dramatically improved by dynamically ordering, or scheduling, pending requests. Via strongly validated simulation, we examine the impact of complex logical-to-physical mappings and large prefetching caches on scheduling effectiveness. Using both synthetic workloads and traces captured from six different user environments, we arrive at three main conclusions: (1) Incorporating complex mapping information into the scheduler provides only a ma ...

24 Designing a trace format for heap allocation events

Trishul Chilimbi, Richard Jones, Benjamin Zorn

October 2000 ACM SIGPLAN Notices, Proceedings of the 2nd international symposium on Memory management, Volume 36 Issue 1

Full text available: pdf(1.53 MB)

Additional Information: full citation, abstract, citings, index terms

Dynamic storage allocation continues to play an important role in the performance and correctness of systems ranging from user productivity software to high-performance servers. While algorithms for dynamic storage allocation have been studied for decades, much of the literature is based on measuring the performance of benchmark programs unrepresentative of many important allocation-intensive workloads. Furthermore, to date no standard has emerged or been proposed for publishing and exchangin ...

25 Building a robust software-based router using network processors

Tammo Spalink, Scott Karlin, Larry Peterson, Yitzchak Gottlieb

October 2001 ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles, Volume 35 Issue 5

Full text available: 🔁 pdf(1.49 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Recent efforts to add new services to the Internet have increased interest in software-based routers that are easy to extend and evolve. This paper describes our experiences using emerging network processors---in particular, the Intel IXP1200---to implement a router. We show it is possible to combine an IXP1200 development board and a PC to build an inexpensive router that forwards minimum-sized packets at a rate of 3.47Mpps. This is nearly an order of magnitude faster than existing pure PC-base ...

26 Metadata and data structures for the historical newspaper digital library

Robert B. Allen, John Schalow

November 1999 Proceedings of the eighth international conference on Information and knowledge management

Full text available: 🔁 pdf(732.38 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

We examine metadata and data-structure issues for the Historical Newspaper Digital Library. This project proposes to digitize and then do OCR and linguisting processing on several years worth of historical newspapers. Newspapers are very complex information objects so developing a rich description of their content is challenging. In addition to frameworks for the logical structure and physical layout, we propose metadata relevant to the image processing and to the historians who will use th ...

Keywords: OCR, digital libraries, history, metadata, newspapers

27 Broadcast protocols to support efficient retrieval from databases by mobile users Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar March 1999 ACM Transactions on Database Systems (TODS), Volume 24 Issue 1



Full text available: pdf(638.48 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive braodcast protocols has been posed as an important problem. Such protocols are employed by database servers to decide on the content of bbroadcasts dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and also propose efficient retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

28 Network intrusions: Testing network-based intrusion detection signatures using mutant exploits



Giovanni Vigna, William Robertson, Davide Balzarotti

October 2004 Proceedings of the 11th ACM conference on Computer and communications security

Full text available: pdf(197.42 KB) Additional Information: full citation, abstract, references, index terms

Misuse-based intrusion detection systems rely on models of attacks to identify the manifestation of intrusive behavior. Therefore, the ability of these systems to reliably detect attacks is strongly affected by the quality of their models, which are often called "signatures." A perfect model would be able to detect all the instances of an attack without making mistakes, that is, it would produce a 100% detection rate with 0 false alarms. Unfortunately, writing good models (or good signatures) ...

Keywords: intrusion detection, quality metrics, security testing

The British Computer Society Data Dictionary Systems Working Party report
The Data Dictionary Systems Working Party
Page 1077, Volume 9, 9 Issue 4, 2

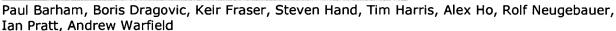


December 1977 , Volume 9 , 9 Issue 4 , 2

Full text available: pdf(2.23 MB)

Additional Information: full citation, references

30 Virtual machine monitors: Xen and the art of virtualization



October 2003 Proceedings of the nineteenth ACM symposium on Operating systems principles

Full text available: pdf(168.76 KB)

Additional Information: full citation, sterms

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service. This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

31 Tools and approaches for developing data-intensive Web applications: a survey Piero Fraternali



Full text available: pdf(524.80 KB)

Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

32 <u>Streams, structures, spaces, scenarios, societies (5s): A formal model for digital</u> libraries

April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2

<u>libraries</u>
Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

Full text available: pdf(316.85 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

33 Brave new topics - session 2: from context to content: leveraging contextual metadata to infer multimedia content: From context to content: leveraging context to infer media metadata

Marc Davis, Simon King, Nathan Good, Risto Sarvas

October 2004 Proceedings of the 12th annual ACM international conference on Multimedia

Full text available: pdf(373.07 KB) Additional Information: full citation, abstract, references, index terms

The recent popularity of mobile camera phones allows for new opportunities to gather important metadata at the point of capture. This paper describes a method for generating metadata for photos using spatial, temporal, and social context. We describe a system we implemented for inferring location information for pictures taken with camera phones and its performance evaluation. We propose that leveraging contextual metadata at the point of capture can address the problems of the semantic and s ...

Keywords: content-based image retrieval, context-to-content inference, contextual metadata, location-based services, mobile camera phones, wireless multimedia applications

The duality of memory and communication in the implementation of a multiprocessor

operating system

M. Young, A. Tevanian, R. Rashid, D. Golub, J. Eppinger

November 1987 ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles, Volume 21 Issue 5

Full text available: pdf(1.26 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Mach is a multiprocessor operating system being implemented at Carnegie-Mellon University. An important component of the Mach design is the use of memory objects which can be managed either by the kernel or by user programs through a message interface. This feature allows applications such as transaction management systems to participate in decisions regarding secondary storage management and page replacement. This paper explores the goals, design and implementation of Mach and it ...

35 <u>Repository architectures: The multi-faceted use of the OAI-PMH in the lanl repository</u> Henry N. Jerez, Xiaoming Liu, Patrick Hochstenbach, Herbert Van de Sompel June 2004

Full text available: pdf(515.81 KB) Additional Information: full citation, abstract, references, index terms

This paper focuses on the multifaceted use of the OAI-PMH in a repository architecture designed to store digital assets at the Research Library of the Los Alamos National Laboratory (LANL), and to make the stored assets available in a uniform way to various downstream applications. In the architecture, the MPEG-21 Digital Item Declaration Language is used as the XML-based format to represent complex digital objects. Upon ingestion, these objects are stored in a multitude of autonomous OAI-PMH re ...

Keywords: OAI-PMH, digital libraries, federation, interoperability

36 An analytic model of hierarchical mass storage systems with network-attached storage devices

Daniel A. Menascé, Odysseas I. Pentakalos, Yelena Yesha

May 1996 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1996 ACM SIGMETRICS international conference on Measurement and modeling of computer systems, Volume 24 Issue 1

Full text available: pdf(974.81 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Network attached storage devices improve I/O performance by separating control and data paths and eliminating host intervention during data transfer. Devices are attached to a high speed network for data transfer and to a slower network for control messages. Hierarchical mass storage systems use disks to cache the most recently used files and tapes (robotic and manually mounted) to store the bulk of the files in the file system. This paper shows how queuing network models can be used to assess t ...

37 <u>Annotea: an open RDF infrastructure for shared Web annotations</u> José Kahan, Marja-Ritta Koivunen

April 2001 Proceedings of the tenth international conference on World Wide Web

Full text available: pdf(271.46 KB) Additional Information: full citation, references, citings, index terms

Keywords: RDF, World-Wide Web, XML, XPointer, annotations, metadata, semantic web

The open archives initiative: building a low-barrier interoperability framework Carl Lagoze, Herbert Van de Sompel



January 2001 Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries

Full text available: pdf(356.96 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The Open Archives Initiative (OAI) develops and promotes interoperabil ity solutions that aim to facilitate the efficient dissemination of content. The roots of the OAI lie in the E-Print community. Over the last year its focus has been extended to include all content providers. This paper describes the recent history of the OAI - its origins in promoting E-Prints, the broadening of its focus, the details of its technical standard for metadata harvesting, the applications of this standard, ...

Keywords: digital libraries, interoperability, metadata, protocols

39 Network security: Efficient packet marking for large-scale IP traceback

Michael T. Goodrich

November 2002 Proceedings of the 9th ACM conference on Computer and communications security

Full text available: pdf(239.98 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We present a new approach to IP traceback based on the probabilistic packet marking paradigm. Our approach, which we call randomize-and-link, uses large checksum cords to "link" message fragments in a way that is highly scalable, for the checksums serve both as associative addresses and data integrity verifiers. The main advantage of these checksum cords is that they spread the addresses of possible router messages across a spectrum that is too large for the attacker to easily create messages th ...

Keywords: denial-of-service, packet marking, traceback

40 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann December 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 4

Full text available: pdf(300.97 KB) Additional Information: full citation, abstract, index terms

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management system designed from scratch for storing and processing XML data. Contrary to the common belief that management of XML data is just another application for traditional databases like relational systems, we illustrate how almost every component in a ...

Keywords: Database, XML

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41 Session 4: Web service applications: Towards securing XML Web services Ernesto Damiani, Sabrina De Capitani di Vimercati, Pierangela Samarati November 2002 Proceedings of the 2002 ACM workshop on XML security

Full text available: pdf(198.65 KB)

Additional Information: full citation, abstract, references, citings, index terms

Security is currently one of the main concerns about XML Web services. Several initiatives are currently ongoing aimed at achieving a standardized way for supporting integrity, confidentiality, and access control for XML Web services. This paper looks into these approaches and gives some hints for future research.

Keywords: SOAP, Web services, access control

42 UIO: a uniform I/O system interface for distributed systems

David R. Cheriton

January 1987 ACM Transactions on Computer Systems (TOCS), Volume 5 Issue 1

Full text available: pdf(3.20 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A uniform I/O interface allows programs to be written relatively independently of specific I/O services and yet work with a wide variety of the I/O services available in a distributed environment. Ideally, the interface provides this uniform access without excessive complexity in the interface or loss of performance. However, a uniform interface does not arise from careful design of individual system interfaces alone; it requires explicit definition. In this paper, the UIO (unifo ...

43 Application performance and flexibility on exokernel systems

M. Frans Kaashoek, Dawson R. Engler, Gregory R. Ganger, Héctor M. Briceño, Russell Hunt, David Mazières, Thomas Pinckney, Robert Grimm, John Jannotti, Kenneth Mackenzie October 1997 ACM SIGOPS Operating Systems Review, Proceedings of the sixteenth ACM symposium on Operating systems principles, Volume 31 Issue 5

Full text available: pdf(2.39 MB)

Additional Information: full citation, references, citings, index terms

44 <u>Hardware-In-the-Loop (HIL) simulation: an application of Colbert's object-oriented software development method</u>



Mohamed E. Fayad, Louis J. Hawn, Mark A. Roberts, Jay W. Schooley, Wei-Tek Tsai December 1992 **Proceedings of the conference on TRI-Ada '92**

Full text available: pdf(1.44 MB)

Additional Information: full citation, references, citings, index terms

45 The logical disk: a new approach to improving file systems

Wiebren de Jonge, M. Frans Kaashoek, Wilson C. Hsieh

December 1993 ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles, Volume 27 Issue 5

Full text available: pdf(1.55 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The Logical Disk (LD) defines a new interface to disk storage that separates file management and disk management by using logical block numbers and block lists. The LD interface is designed to support multiple file systems and to allow multiple implementations, both of which are important given the increasing use of kernels that support multiple operating system personalities. A log-structured implementation of LD (LLD) demonstrates that LD can be implemented efficiently. LLD adds about 5% to 10% ...

Keywords: MINIX, UNIX, disk storage management, file system organization, file system performance, high write performance, log-structured file system, logical disk

46 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel

June 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 2

Full text available: pdf(483.54 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

47 <u>Telecommunications: Fluid simulation: discrete event fluid modeling of TCP</u>

David M. Nicol

December 2001 Proceedings of the 33nd conference on Winter simulation

Full text available: pdf(151.17 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

The bulk of Internet traffic is carried using variants of the TCP protocol. A realistic simulation-based performance study of any distributed application run over the Internet (e.g. reliable multicast) must therefore account for the impact that TCP background traffic has upon application behavior. Because TCP flows are shaped by other TCP flows, it is difficult to model TCP and its impact on other traffic other than by explicitly simulating it. This adds a significant computational burden to the ...

48

<u>Technical papers: software presentation: Towards large-scale information integration</u> Kenneth M. Anderson, Susanne A. Sherba, William V. Lepthien



Full text available: pdf(1.46 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Software engineers confront many challenges during software development. One challenge is managing the relationships that exist between software artifacts. We refer to this task as information integration, since establishing a relationship between documents typically implies that an engineer must integrate information from each of the documents to perform a development task. In the past, we have applied open hypermedia techniques and technology to address this challenge. We now extend this work ...

49 Job and jobstream modeling in the TRW timeshare system simulation

Hans Kaspar, Donald S. Miller

June 1974 Proceedings of the 2nd symposium on Simulation of computer systems

Full text available: pdf(1.43 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

The method of modeling user jobs and jobstream utilized in the simulation of the TRW Timeshare System (TRW/TSS) is presented. The paper begins with a brief description of the TRW/TSS. Simulation objectives are given. An overview of the simulator is presented. The actual TRW/TSS user jobstream is given in detail. This is followed by two methods of modeling this user profile; namely, a statistical and a job-trace modeling approach which forms the central discussion of this paper. Sections on ...

50 Risks to the public: Risks to the public in computers and related systems

Peter G. Neumann

May 2002 ACM SIGSOFT Software Engineering Notes, Volume 27 Issue 3

Full text available: pdf(1.92 MB) Additional Information: full citation

51 Token coherence: decoupling performance and correctness

Milo M. K. Martin, Mark D. Hill, David A. Wood

May 2003 ACM SIGARCH Computer Architecture News, Proceedings of the 30th annual international symposium on Computer architecture, Volume 31 Issue 2

Full text available: pdf(269.08 KB) Additional Information: full citation, abstract, references, citings

Many future shared-memory multiprocessor servers will both target commercial workloads and use highly-integrated "glueless" designs. Implementing low-latency cache coherence in these systems is difficult, because traditional approaches either add indirection for common cache-to-cache misses (directory protocols) or require a totally-ordered interconnect (traditional snooping protocols). Unfortunately, totally-ordered interconnects are difficult to implement in glueless designs. An ideal coherenc ...

52 Adaptive block rearrangement

Sedat Akyürek, Kenneth Salem

May 1995 ACM Transactions on Computer Systems (TOCS), Volume 13 Issue 2

Full text available: pdf(2.27 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

An adaptive technique for reducing disk seek times is described. The technique copies frequently referenced blocks from their original locations to reserved space near the middle of the disk. Reference frequencies need not be known in advance. Instead, they are estimated by monitoring the stream of arriving requests. Trace-driven simulations show

that seek times can be cut substantially by copying only a small number of blocks using this technique. The technique has been implemented by modi ...

Keywords: data clustering, data replication, seek optimization

53 <u>Service security: A concrete solution for web services adaptability using policies and</u> aspects



Fabien Baligand, Valérie Monfort

November 2004 Proceedings of the 2nd international conference on Service oriented computing

Full text available: pdf(368.60 KB) Additional Information: full citation, abstract, references, index terms

Traditional middleware is usually developed on monolithic and non-evolving entities, resulting in a lack of flexibility and interoperability. Among current architectures, Service Oriented Architectures aim to easily develop more adaptable Information Systems. Most often, Web Service is the fitted technical solution which provides the required loose coupling to achieve such architectures. However there is still much to be done in order to obtain a genuinely flawless Web Service, and current ma ...

Keywords: adaptability, aspect oriented programming, reusability, service, service oriented architecture, web service

54 PLEXUS—an on-line system for modeling neural networks



September 1968 Communications of the ACM, Volume 11 Issue 9

Full text available: pdf(926.62 KB) Additional Information: full citation, abstract, references, citings

A description is presented of PLEXUS, a system which enables a user to construct and specify a neural network, to analyze the output data produced by the network, and to store and retrieve networks and data from a library. The system, operated entirely from a digital display unit, interacts directly with the user and permits easy and rapid transitions between the various phases of the modeling process. PLEXUS is designed to complement neurophysiological research so that the systematic devel ...

Keywords: biological modeling, data analysis, discrete system simulation, library systems, modeling, network simulation, neural networks, neurophysiological models, on-line simulation, simulation

55 <u>Safely executing untrusted code: Upgrading transport protocols using untrusted mobile</u> code



Parveen Patel, Andrew Whitaker, David Wetherall, Jay Lepreau, Tim Stack
October 2003 Proceedings of the nineteenth ACM symposium on Operating systems
principles

Full text available: pdf(248.86 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present STP, a system in which communicating end hosts use untrusted mobile code to remotely upgrade each other with the transport protocols that they use to communicate. New transport protocols are written in a type-safe version of C, distributed out-of-band, and run in-kernel. Communicating peers select a transport protocol to use as part of a TCP-like connection setup handshake that is backwards-compatible with TCP and incurs minimum connection setup latency. New transports ...

Keywords: TCP-friendliness, deployment, implementation, transport protocols, untrusted

mobile code

56 Improving 64-Bit Java IPF Performance by Compressing Heap References
Ali-Reza Adl-Tabatabai, Jay Bharadwaj, Michal Cierniak, Marsha Eng, Jesse Fang, Brian T.

Lewis, Brian R. Murphy, James M. Stichnoth

March 2004 Proceedings of the international symposium on Code generation and optimization: feedback-directed and runtime optimization

Full text available: pdf(172.84 KB) Additional Information: full citation, abstract, citings

64-bit processor architectures like the Intel® Itanium®Processor Family are designed for large applicationsthat need large memory addresses. When runningapplications that fit within a 32-bit address space, 64-bitCPUs are at a disadvantage compared to 32-bit CPUsbecause of the larger memory footprints for their data. This results in worse cache and TLB utilization, and consequentlylower performance because of increased missratios. This paper considers software techniques for virtualmachines that all ...

57 <u>Automatic metadata creation: Automatic document metadata extraction using support</u> vector machines



Full text available: pdf(154.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

Automatic metadata generation provides scalability and usability for digital libraries and their collections. Machine learning methods offer robust and adaptable automatic metadata extraction. We describe a Support Vector Machine classification-based method for metadata extraction from header part of research papers and show that it outperforms other machine learning methods on the same task. The method first classifies each line of the header into one or more of 15 classes. An iterative converg ...

58 ARIMA time series modeling and forecasting for adaptive I/O prefetching Nancy Tran, Daniel A. Reed

June 2001 Proceedings of the 15th international conference on Supercomputing

Full text available: pdf(485.27 KB)

Additional Information: full citation, abstract, references, citings, index terms

Bursty application I/O patterns, together with transfer limited storage devices, combine to create a major I/O bottleneck on parallel systems. This paper explores the use of time series models to forecast application I/O request times, then prefetching I/O requests during computation intervals to hide I/O latency. Experimental results with I/O intensive scientific codes show performance improvements compared to standard UNIX prefetching strategies.

Keywords: I/O, access pattern, modeling, prefetching, times series

59 Experiences with the Amoeba distributed operating system

Andrew S. Tanenbaum, Robbert van Renesse, Hans van Staveren, Gregory J. Sharp, Sape J. Mullender

December 1990 Communications of the ACM, Volume 33 Issue 12

Full text available: pdf(2.71 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The Amoeba project is a research effort aimed at understanding how to connect multiple computers in a seamless way [16, 17, 26, 27, 31]. The basic idea is to provide the users with the illusion of a single powerful timesharing system, when, in fact, the system is implemented on a collection of machines, potentially distributed among several countries. This research has led to the design and implementation of the Amoeba distributed operating system, which is being used as a prototype and veh ...

60 BIIF, VRML and CGM

Bernadette Kuzma, George S. Carson, Richard F. Puk, John Gebhardt May 1999 **ACM SIGGRAPH Computer Graphics**, Volume 33 Issue 2

Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, index terms

This edition of the Standards Pipeline consists of three articles that provide an in-depth look at applications of three important international standards. In the first article, Bernadette Kuzma of SEMCOR, Inc. describes the Basic Image Interchange Format (BIIF) formally known as ISO/IEC 12087-5:1998. While BIIF originated in the defense community, it is beginning to find wider applications in areas ranging from electronic libraries to medical imaging. In the second article, Richard F. Puk of In ...

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FGDC Formal Seismic Metadata - Archive of Boomer Seismic ...

- ... trackline maps, logbooks, and formal metadata for boomer data collected on
- ... a trace data block that follows the reel identification header with the ...

pubs.usgs.gov/of/2003/of03-402/html/metadata.htm - 59k - Cached - Similar pages

Formal Seismic Metadata

... Menlo Park, Calif. who provided examples of his formal metadata; ... The trace data block follows. the reel identification header. ... pubs.usgs.gov/of/2001/of01-326/HTML/METADATA.HTM - 94k - Cached - Similar pages [More results from pubs.usgs.gov]

Tablespaces, Datafiles, and Control Files

- ... is a map that describes the status of each data block within a segment with
- ... involves only copying datafiles and integrating the tablespace metadata. ...

www.stanford.edu/dept/itss/docs/ oracle/9i/server.920/a96524/c04space.htm - 70k - Cached - Similar pages

Making User-Managed Backups

... because the redo must contain a copy of each changed data block. ... export the tablespace metadata by using the transportable tablespace functionality. ... www.stanford.edu/dept/itss/docs/ oracle/9i/server.920/a96572/osbackups.htm - 110k - Cached - Similar pages

EOS-1D JPEG, IPTC, iView, and Photoshop

- ... Photoshop doesn't look in the Exif header for the IPTC fields, so it will display
- ... Does anyone know if iView can export individual metadata caption ...

www.tow.com/photo/articles/1d_jpeg_iptc/ - 20k - Cached - Similar pages

[PDF] SDTI-CP: PACKAGING FOR BITSTREAMS

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- ... recommend that the MPEG-2 Sequence Header metadata be repeated every GOP to
- ... combination of edit and error metadata, compression coding metadata and ...

www.pro-mpeg.org/publicdocs/pdf/sdti_cppaper.pdf - Similar pages

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... Flac gives better compression, decompresses faster, supports metadata and ... between the wav "fmt " header chunk and the actual sample "data" block, ... www.archive.org/iathreads/post-view.php?id=22371 - 50k - Cached - Similar pages

Internet Archive Forums: View Post

... between the way "fmt " header chunk and the actual sample "data" block, ... and may contain anything ranging from metadata information like artist, ... www.archive.org/iathreads/post-view.php?id=22405 - 43k - Cached - Similar pages

Oracle9iAS Wireless Takes XHTML and XForms Offline

- ... instead, they can simply edit the application metadata and let the runtime engine
- ... This script finds data block corruptions before users receive the ...

www.geocities.com/oraclecentral/links/o23briefs.html - 39k - Cached - Similar pages

Streamer p2p radio

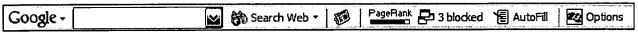
... Fixed a small stream data block bug. Data blocks are supposed to be about ... The fix for non-playing streams was to disable metadata, but no matter how ... www.streamerp2p.com/?page=news.htm - 38k - Cached - Similar pages

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UNAVCO

- ... increase of second resolution in TIME OF FIRST OBS header line in RINEX OBS
- ... ephemeris data block, do not contain the extra health bits and will ...

www.unayco.org/facility/ software/tegc/notice/20000229.html - 23k - Cached - Similar pages

UNAVCO

- ... edit a RINEX OBS file with a sampling INTERNAL value of 0 in the header, ie:
- ... was being taken from the P1 data block, rather than the CA data block. ... www.unavco.org/facility/software/teqc/bugs.html - 105k - Cached - Similar pages

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RocPanda 3.0

- ... preceded by a block header that describes the data, to form a data block of
- ... be preceded by a header containing the metadata specified through calls ...

cdr.cs.ujuc.edu/panda/ software/rocpanda/userguide3.0.html - 74k - Cached - Similar pages

[PDF] RocPanda 3.0: User's Guide

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- ... preceded by a block header that describes the data, to form a data block of
- ... preceded by a header containing the metadata specified through calls to ...

cdr.cs.uiuc.edu/panda/ software/rocpanda/userguide3.0.pdf - Similar pages

[PDF] Pro-MPEG Presentation v2.ppt

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- ... Item Header. Item Header. Item. b0. b7. Element. Data Block. Element. Data Block
- ... Includes Video Index, MPEG-2 coding metadata, edit info and ...

www.btinternet.com/~ivemail/publicdocs/pdf/sdtipres.pdf - Similar pages

NSIS: NSIS 1

... Cleaned up exec.c some by making file_exists() return metadata about the ... Made uninstall icon offset stored in header, as opposed to in data block. ... nsis.sourceforge.net/download/nsis1/ - 51k - Cached - Similar pages

Kernel Traffic #80 For 14 Aug 2000

- ... the new error-handling infrastructure for ext3 and the metadata-only journaling.
- ... overhead of writing every data block twice (roughly speaking). ...

www.kerneltraffic.org/kernel-traffic/kt20000814 80.html - 85k - Cached - Similar pages

xfs db (Linux Reviews)

... If no -t options are given then all metadata types can be trashed. ... A data block contains the following fields: dhdr: header containing magic number ... linuxreviews.org/man/xfs_db/ - 139k - Cached - Similar pages

[PDF] Baseline Spec Template

File Format: PDF/Adobe Acrobat - View as HTML

... Header. Message Data Block. 7.6.1. Message Type-1 Digital Radar Data ...

Following the Volume Record Header is the RDA metadata for that Volume Coverage ...

https://www.radarservices.org/members/L2icd-build5.pdf - Similar pages

CLASS Help Pages - Data Available

... If the scene data block is empty or missing, then it is considered as a ... Each data set has one data file and one or two metadata files (depending on ... www.class.noaa.gov/edna_help/dataavail.htm - 293k - Cached - Similar pages

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Lessons of the Aerial Photography Projects at Oregon State Office ...

... two byte numerical values are normally assigned to a data block. ... The metadata file of the DRG is supposed to have the correct position for the upper ...

gis.esri.com/library/userconf/ proc99/proceed/papers/pap409/p409.htm - 39k - Cached - Similar pages

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- ... add and retrieve \a name = \a value metadata in Vorbis and Speex * streams.
- ... \param next_eos A boolean indicating whether the next data block will be ...

svn.annodex.net/libfishsound/ branches/integer/include/fishsound/fishsound.h - 25k - Apr 1, 2005 - Cached - Similar pages

Chapter 11

- ... how is file metadata (eg permissions, file owners etc) stored and many more
- ... by a header that contains approximately 512 bytes of information. ...

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[PDF] Leveraging SnapView/IP in Oracle8 i Environments with the CLARiiON ...

File Format: PDF/Adobe Acrobat - View as HTML

- ... space and the snap copy pointer is reset to point to the data block in ...
- or there is discrepancy between the metadata in the control files and ...

www.oracle.com/technology/deploy/ availability/pdf/emc ip4700_snapview_8i.pdf - Similar pages

rppFl Oracle9i with SnapView/IP in NAS Environments

File Format: PDF/Adobe Acrobat - View as HTML

... pointer is reset to point to the data block in the reserved space. ... or if

there is a discrepancy between the metadata in the control files ...

www.oracle.com/technology/deploy/ availability/pdf/emc_ip4700_snapview_9i.pdf - Similar_pages

Software Download: Cd Data Rescue

- ... your Internet connection: view incoming and outgoing data, block advertisers,
- ... build SQL queries visually, extract, print and search metadata, ...

www.sharewareconnection.com/titles/cd-data-rescue18.htm - 100k - Cached - Similar pages

School of Computer & Information Science - University of South ...

- ... location for database metadata that does not reside in the SYSTEM tablespace.
- ... is a map that describes the status of each data block within a segment ...

www.cis.unisa.edu.au/oracle/ server.101/b10743/physical.htm - 91k - Cached - Similar pages

redhat.com | Red Hat, Inc.

... So that no other user can access the metadata of that VG. ... but also the fs

data,eg. when one server is moving a data block from one disk tot the ...

https://www.redhat.com/archives/ linux-lvm/2002-March/msg00005.html - 40k - Cached - Similar pages

Data Guard Scenarios

... ORA-26040: Data block was loaded using the NOLOGGING option ... The scenario assumes the metadata definition for the AUDIO table remains unmodified ...

www.lc,leidenuniv.nl/awcourse/ oracle/server.920/a96653/standbyscen.htm - 189k - Cached - Similar pages

FPS Gamers Wiki - HaloMapSpecs

... Almost all of the .map file **header** structure has been determined, save several ... and I assume they're pointing to some sort of **metadata**, that actually ... wiki.fpsgamers.se/index.php?n=Halo.HaloMapSpecs - 25k - <u>Cached</u> - <u>Similar pages</u>

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Searching 1790 to present...

Results of Search in 1790 to present db for: ((((metadata AND edit) AND (validate OR validation)) AND header) AND "data block"): 43 patents. Hits 1 through 43 out of 43



Refine Search

metadata and edit and (validate or validation) and head

PAT.

Title

- NO.
- 2 6,842,906 T System and method for a refreshable proxy pool in a communication services patterns environment
- 3 6,742,015 Base services patterns in a netcentric environment

1 6,850,252 II Intelligent electronic appliance system and method

- 4 6,715,145 T Processing pipeline in a base services pattern environment
- 5 6,640,249 T Presentation services patterns in a netcentric environment
- 6 6,640,244 TRequest batcher in a transaction services patterns environment
- 7 6,640,238 Activity component in a presentation services patterns environment
- 8 6,636,242 View configurer in a presentation services patterns environment
- 9 6,615,253 Efficient server side data retrieval for execution of client side applications
- 10 6,615,199 Abstraction factory in a base services pattern environment
- 11 6,606,660 T Stream-based communication in a communication services patterns environment
- 12 6,601,234 T Attribute dictionary in a business logic services environment
- 13 6,601,192 Assertion component in environment services patterns
- 14 6,578,068 T Load balancer in environment services patterns
- 15 6,571,282 II Block-based communication in a communication services patterns environment
- 16 6,550,057 T Piecemeal retrieval in an information services patterns environment
- 17 6,549,949 IT Fixed format stream in a communication services patterns environment
- 18 6,539,396 Multi-object identifier system and method for information service pattern environment
- 19 6,529,948 Multi-object fetch component
- 20 6,529,909 II Method for translating an object attribute converter in an information services patterns environment
- 21 6,502,213 **T** System, method, and article of manufacture for a polymorphic exception handler in environment services patterns
- 22 6,496,850 T Clean-up of orphaned server contexts

- 23 6,477,665 T System, method, and article of manufacture for environment services patterns in a netcentic environment
- 24 6,477,580 T Self-described stream in a communication services patterns environment
- 25 6,442,748 T System, method and article of manufacture for a persistent state and persistent object separator in an information services patterns environment
- 26 6,438,594 T Delivering service to a client via a locally addressable interface
- 27 6,434,628 The Common interface for handling exception interface name with additional prefix and suffix for handling exceptions in environment services patterns
- 28 6,434,568 Information services patterns in a netcentric environment
- 29 6,427,140 T Systems and methods for secure transaction management and electronic rights protection
- 30 6,389,402 II Systems and methods for secure transaction management and electronic rights protection
- 31 6,363,488 Systems and methods for secure transaction management and electronic rights protection
- 32 6,339,832 Exception response table in environment services patterns
- 33 6,332,163 Method for providing communication services over a computer network system
- 34 <u>6,289,382</u> T <u>System, method and article of manufacture for a globally addressable interface in a communication services patterns environment</u>
- 35 6,253,193 T Systems and methods for the secure transaction management and electronic rights protection
- 36 6,237,786 Systems and methods for secure transaction management and electronic rights protection
- 37 5,982,891 Systems and methods for secure transaction management and electronic rights protection
- 38 5,949,876 \(\Pi\) Systems and methods for secure transaction management and electronic rights protection
- 39 5,917,912 T System and methods for secure transaction management and electronic rights protection
- 40 5,915,019 T Systems and methods for secure transaction management and electronic rights protection
- 41 5.910.987 T Systems and methods for secure transaction management and electronic rights protection
- 42 5,892,900 T Systems and methods for secure transaction management and electronic rights protection
- 43 5,873,097 T Update mechanism for computer storage container manager

